Vector Point Import Table of Keywords

Block Constructors		
Start	In the Vector Point file you can have an unlimited number of blocks. This allows you to group common data point clouds together, especially when running under DCC control which will allow you run one point at a time or auto-run all points at once. Each block must begin with a "Start" and end with a "Stop".	
Stop	The last statement of block.	
N:	Allows the naming of a block for better description. If no name is found in the block, a sequential number will be assigned.	
	Syntax:	
	N: *text*	
	Example:	
	N:Top Surface from Datum -A-	

Unit of Measurement		
U:	The filtering of this data occurs by extracting the first letter after the "U:". If the first letter is a "m" then it switches to metric mode, otherwise it will default to inch.	
	Syntax:	
	u:*word*	
	Example:	
	u:inch, u:metric, u:mm	

Probe Management		
PROBE:	Activates a stylus by calling the tip number and sets it active.	
	Syntax:	
	probe: *integer_value*	
	Example:	
	probe:2	

Text Statements		
M: Text:	Text Statements are used to create a standard text statement in Geomet. This will create a new feature which will become part of your part program.	
	Syntax:	
	m: *text* , text: *text*	
	Examples:	
	M:Sample Text	
	Text: Sample Text	
REM // **	Allows the placement of text instructions into the Vector Point ASCII file which will not be used during the measurment process. These text entries are only used for viewing the actual data file.	
	Example: REM Text used to clarify entries in the data file.	

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Tolerance Values		
H:	Establishes the upper tolerance value for the profile band. NOTE: This value is sign sensitive.	
	Syntax:	
	H: *value*	
	Example: (based on a profile band of +0.250 / -0.250)	
	h:0.25	
L:	Establishes the lower tolerance value for the profile band. NOTE: This value is sign sensitive.	
	Syntax:	
	L: *value*	
	Example: (based on a profile band of +0.250 / -0.250)	
	l:-0.25	
E:	Establishes the Probe Deviation or the probing error. Valid Limits: > 0.0	
	Syntax:	
	E: *value*	
	Example:	
	e:0.25	

Setting of Print Exception Tags		
T:	Attaches the Print Exception Tags on the reported values. Valid Tags: X, Y, Z, XY, YZ, ZX, XYZ	
	Syntax:	
	T: *tag*	
	Example:	
	t:x	
	t:yz	

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Clearance Motion Targets	
I: IP: IP= IP =	Creates a clearance point for traversing in DCC control. NOTE: the XYZ values can be entered using a space, tab or comma character between the XYZ values. Example X Y Z -or- X, Y, Z -or- X <tab> Y <tab> Z.
	Syntax:
	i: x y z i: x, y, z ip: x y z ip= x y z ip = x y z
	Example:
	I: 1.234 2.345 3.456 IP= 1.234, 2.356, 3.456

Measurement Point Targets	
XYZIJK : XYZIJK=	Creates the nominal contact point based on the XYZ target and IJK approach vector. This command uses the labels to identify the XYZ IJK values, but, for backward compatibility, the XYZ IJK values can also be entered without labels. These values are interpreted as a column of six number seperated by a space, comma or tab.
	Syntax:
	x.xxx y.yyy z.zzz i.iii j.jjj k.kkk *(old style seperated by a space, comma or tab)* X: *value* Y: *value* Z: *value* I: *value* J: *value* K: *value* X= *value* Y= *value* Z= *value* I= *value* J= *value* K= *value* X = *value* Y = *value* Z = *value* I = *value* J = *value* K = *value*
	Example:
	1.234 2.345 3.456 0.000 0.000 1.000 X: 1.234 Y: 2.345 Z: 3.456 I: 0.000 J: 0.000 K: 1.000 X= 1.234 Y= 2.345 Z= 3.456 I= 0.000 J= 0.000 K= 1.000 X = 1.234 Y = 2.345 Z = 3.456 I = 0.000 J = 0.000 K = 1.000

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DCC Attributes		
PROBESP:	Change the probe speed to a new value. Valid limits: 0.010" - 1.000" (0.254mm - 25.4mm)	
	Syntax:	
	probesp: *value*	
	Example:	
	probesp:0.025	
TRAVSP:	Change the traverse speed to a new value. Valid limits: 0.010" - 20.0" (0.254mm - 508.0mm)	
	Syntax:	
	travsp: *value*	
	Example:	
	travsp:5.0	
S:	Stand off distance. This is a distance from the nominal XYZ contact point along the IJK vector normal where the probe will begin the measurement point approach. Valid Limits: 0.010" - 2.00" (0.254mm = 50.8mm)	
	Syntax:	
	S: *value*	
	Example:	
	s:0.25	
O:	Over Travel Distance. The distance the probe will travel past the expected contact point defined as the nominal XYZ. Should the probe reach this distance, motion will stop. Valid Limits: 0.010" - 10.0" (0.254mm - 254.0mm)	
	Syntax:	
	O: *value*	
	Example:	
	o:0.25	

Vector Point Import Table of Keywords

Header Keywords		
		Certain keywords can be used outside of the block designations Start/Stop to act as global value settings. These include:
U:		Unit of Measurement
S:		Stand Off Distance
O:		Over Travel Distance
H:		Upper Tolerance Value
L:		Lower Tolerance Value
E:		Probe Deviation

Notes:	
	1) Leading spaces are removed from each line of text before interpreting.
	2) Labels that are followed by an equal sign can also be used with a space before the equal sign. Example "X =" and "X=" are equivalent. This is not true for "X:".
	3) Tabs can be used between values such as "X= <tab> *value*"
	4) The import filter converts all text to uppercase prior to interpreting. Example x: is equivalent to X:

Example:

```
E:      0.0002
U:      Inch
S:      0.50000
O:       0.25000
start
N:      Top and Front GeoWidget
L:      -0.00100
h:       0.00150
M:      Top Surface
I:      -0.50000 -0.25000 1.00000
PR:     2
I:       1.00000 0.25000 1.00000
         1.00000 0.25000 0.00000 0.00000 0.00000 1.00000
         3.00000 0.25000 0.00000 0.00000 0.00000 1.00000
I:       3.00000 -0.75000 0.50000
PR:     4
PROBESP: 0.25000
TRAVSP: 12.00000
I:       3.00000 -0.75000 -0.25000
         3.00000 0.00000 -0.25000 0.00000 -1.00000 0.00000
         1.00000 0.00000 -0.25000 0.00000 -1.00000 0.00000
text:   Front Surface.
S:       0.375
         2.50000 1.50000 -0.35000 -1.00000 0.00000 0.00000
stop
```